PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

| To: MARK E. BOOKS | PCT | | | |
|---|---|--|--|--|
| POLSTER LIEDER WOODRUFF & LUCCHESI 12412 POWERSCOURT DRIVE | NOTIFICATION OF TRANSMITTAL OF | | | |
| SUITE 200 | THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL | | | |
| ST. LOUIS, MO 63131 | SEARCHING AUTHORITY, OR THE DECLARATION | | | |
| | (PCT Rule 44.1) | | | |
| | Date of mailing (day/month/year) 17 JUN 2005 | | | |
| Applicant's or agent's file reference KEDI 8828WO FOR FURTHER ACTION See paragraphs 1 and | | | | |
| International application No. PCT/US05/03398 | International filing date (day/month/year) 28 January 2005 (28.01.2005) | | | |
| Applicant | | | | |
| EVEREST BIOMEDICAL INSTRUMENTS CO. | | | | |
| 1. The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith. | | | | |
| Filing of amendments and statement under Article 19 The applicant is entitled, if he so wishes, to amend the cl | | | | |
| When? The time limit for filing such amendments is normally two months from the date of transmittal of the international search report. | | | | |
| Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes 1211 Geneva 20, Switzerland, Facsimile No.: +41 22 740 14 35 | | | | |
| For more detailed instructions, see the notes on the | accompanying sheet. | | | |
| | 2. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith. | | | |
| 3. With regard to the protest against payment of (an) addi | itional fee(s) under Rule 40.2, the applicant is notified that: | | | |
| the protest together with the decision thereon has be request to forward the texts of both the protest and | een transmitted to the International Bureau together with the applicant's the decision thereon to the designated Offices. | | | |
| | oplicant will be notified as soon as a decision is made. | | | |
| 4. Reminders | | | | |
| Shortly after the expiration of 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication. | | | | |
| The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date. | | | | |
| Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices. | | | | |
| | ths (or later) will apply even if no demand is filed within 19 months. | | | |
| See the Annex to Form PCT/IB/301 and, for details about the Guide, Volume II, National Chapters and the WIPO Internet situ | the applicable time limits, Office by Office, see the PCT Applicant's | | | |
| Name and mailing address of the ISA/ US | Authorized officer Music W. oak to | | | |
| Mail Stop PCT, Attn: ISA/US Commissioner for Patents | Authorized officer Mulic Walker Navin Natnithithadha | | | |
| P.O. Box 1450 Alexandria, Virginia 22313-1450 Telephone No. (571) 272-2975 | | | | |

Facsimile No. (703) 305-3230 Form PCT/ISA/220 (January 2004)

(See notes on accompanying sheet)

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

| Applicant's or agent's file reference KEDI 8828WO | | Form PCT/ISA/220 tere applicable, item 5 below. | | |
|--|--|--|--|--|
| International application No. PCT/US05/03398 | International filing date (day/month/year) 28 January 2005 (28.01.2005) | (Earliest) Priority Date (day/month/year) 29 January 2004 (29.01.2004) | | |
| Applicant EVEREST BIOMEDICAL INSTRUMENTS CO. | | | | |
| This international search report consists It is also accompanied 1. Basis of the Report a. With regard to the language, the language in which it was filed, u The international furnished to this Author b. With regard to any nucleott 2. Certain claims were found 3. Unity of invention is lacking the text is approved as subnetween the constant of the constant o | the by a copy of each prior art document cited in the basis of a transport (Rule 23.1(b)). I de and/or amino acid sequence disclosed in the unsearchable (See Box No. II) In g (See Box No. III) | I in this report. asis of the international application in the slation of the international application | | |
| may, within one month from 6. With regard to the drawings, | d, according to Rule 38.2(b), by this Authorit | y as it appears in Box No. IV. The applicant ch report, submit comments to this Authority. | | |
| as suggested by the as selected by this | e applicant. Authority, because the applicant failed to sug | gest a figure. | | |
| | Authority, because this figure better character | · · · · · · · · · · · · · · · · · · · | | |
| b. none of the figures is to be | published with the abstract. | | | |

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/03398

| A. CLASSIFICATION OF SUBJECT MATTER | | |
|---|--|--|
| IPC(7) : A61B 05/08 | | |
| US CL : 600/532 | sianal alassification and IDC | |
| According to International Patent Classification (IPC) or to both na | tional classification and IPC | |
| B. FIELDS SEARCHED | | |
| Minimum documentation searched (classification system followed by | by classification symbols) | |
| U.S.: 600/529-543; 422/84; 73/23.3 | | |
| , | | |
| | | |
| Documentation searched other than minimum documentation to the | extent that such documents are included in the fields searched | |
| | · | |
| | | |
| | | |
| Electronic data base consulted during the international search (nam | e of data base and, where practicable, search terms used) | |
| EAST | | |
| | | |
| C. DOCUMENTS CONSIDERED TO BE RELEVANT | | |
| | ppropriate, of the relevant passages Relevant to claim No. | |
| Category * Citation of document, with indication, where a | PPPI | |
| X US 6,416,479 B1 (SEIDMAN) 09 July 2002 (09.07 | 2002), column 7, lines 10-19 and claim 1, 4, 5, 9-11, 13-13, and 18 | |
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| Further documents are listed in the continuation of Box C. | See patent family annex. | |
| | | |
| Special categories of cited documents: | "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the | |
| "A" document defining the general state of the art which is not considered to be | principle or theory underlying the invention | |
| of particular relevance | "X" document of particular relevance; the claimed invention cannot be | |
| "E" earlier application or patent published on or after the international filing date | "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step | |
| Earner application of patent published on or and the international filing water | when the document is taken alone | |
| "L" document which may throw doubts on priority claim(s) or which is cited to | "Y" document of particular relevance; the claimed invention cannot be | |
| establish the publication date of another citation or other special reason (as specified) | "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is | |
| specifica) | combined with one or more other such documents, such combination | |
| "O" document referring to an oral disclosure, use, exhibition or other means | being obvious to a person skilled in the art | |
| "P" document published prior to the international filing date but later than the | "&" document member of the same patent family | |
| priority date claimed | | |
| Date of the actual completion of the international search | Date of mailing of the international search report | |
| Date of the actual completion of the international scarci | 17 JUN 2005 | |
| 10 May 2005 (10.05.2005) | - 1 JOIN 2003 | |
| Name and mailing address of the ISA/US | Authorized officer | |
| Mail Stop PCT, Attn: ISA/US | Navin Natnithithadha Much Heith | |
| Commissioner for Patents | Navin Natnithithadha | |
| P.O. Box 1450 | Telephone No. (571) 272-2975 | |
| Alexandria, Virginia 22313-1450 | | |

PATENT COOPERATION TREATY

| From the INTERNATIONAL SEARCHIN | G AUTHORITY | | 1 | |
|--|--|--|--|---|
| То: | | | | PCT |
| MARK E. BOOKS POLSTER LIEDER WOODRUFF & LUCCHESI 12412 POWERSCOURT DRIVE SUITE 200 ST. LOUIS. MO 63131 | | WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY | | |
| | | | | (PCT Rule 43bis.1) |
| | | | Date of mailing | 17 JUN 2005 |
| Applicant's or agent's file refer | rence | | (day/month/year) FOR FURTHER | ACTION |
| - | | | | See paragraph 2 below |
| KEDI 8828WO International application No. | International | filing date | (day/month/year) | Priority date (day/month/year) |
| PCT/US05/03398 | 28 January 2 | 005 (28.01 | .2005) | 29 January 2004 (29.01.2004) |
| International Patent Classificati | | | | |
| IPC(7): A61B 05/08 and US C | 1.: 600/532 | | | |
| Applicant | | | | |
| EVEREST BIOMEDICAL INS | STRUMENTS CO. | | | |
| 1. This opinion contains indic | ations relating to the fol | llowing iter | ms: | |
| Box No. I Ba | asis of the opinion | | | |
| Box No. II Pr | riority | | | |
| Box No. III No. | on-establishment of opir | nion with re | egard to novelty, inv | rentive step and industrial applicability |
| Box No. IV La | ack of unity of invention | 1 | | |
| Box No. V Re | easoned statement under | Rule 43 <i>bis</i> 1 explanatio | s.1(a)(i) with regard ons supporting such | to novelty, inventive step or industrial statement |
| | ertain documents cited | | | |
| Box No. VII Co | ertain defects in the inte | rnational a | pplication | |
| Box No. VIII Co | ertain observations on th | ne internatio | onal application | |
| 2. FURTHER ACTION | | | | |
| If a demand for internation | Examining Authority (ne to be the IPEA and t | ("IPEA") e the chosen | except that this does IPEA has notified the | be considered to be a written opinion of the s not apply where the applicant chooses an he International Bureau under Rule 66.1bis(b) idered. |
| IPFA a written reply toge | ether, where appropriat /220 or before the expire | te, with an | nendments, before t | PEA, the applicant is invited to submit to the the expiration of 3 months from the date of iority date, whichever expires later. |
| i or initial opiois, see i o | | | | |
| 3. For further details, see not | es to Form PCT/ISA/22 | 20. | | |
| Name and mailing address of th | | | Authorized office | (ANNOT TELL) |
| Mail Stop PCT, Attn: IS Commissioner for Patent | | | Navin Natnithit | hadita |
| P.O. Box 1450 Alexandria, Virginia 223 | | | Telephone No. | (571) 272-2975 |
| Facsimile No. (703) 305-3230 | | | | , |
| Form PCT/ISA/237 (cover sheet) |) (January 2004) | | | DO DOSO (ATL 2N. A. |
| | | | | Action: RONATS (17+3) Due Date: H29/05 Docket Entry Date: 0/20/05 |

BEST AVAILABLE COPY

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US05/03398

| Box No. I Basis of this opinion |
|--|
| With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item. |
| This opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)). |
| 2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of: |
| a. type of material |
| a sequence listing |
| table(s) related to the sequence listing |
| b. format of material |
| in written format |
| in computer readable form |
| c. time of filing/furnishing |
| contained in international application as filed. |
| filed together with the international application in computer readable form. |
| furnished subsequently to this Authority for the purposes of search. |
| 3. In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished. |
| 4. Additional comments: |
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10/588221 IAP11 Rec'd PCT/PTO 27 JUL 2006

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US05/03398

| 1. Statement | | |
|---|--|-----|
| Novelty (N) | Claims 2, 3, 6-8, 12, 16, and 17 | YES |
| • | Claims 1, 4, 5, 9-11, and 13-15 and 18 | NO |
| Inventive step (IS) | Claims 2, 3, 6-8, 12, 16, and 17 | YES |
| | Claims 1, 4, 5, 9-11, and 13-15 and 18 | NO |
| Industrial applicability (IA) | Claims 1-18 | YES |
| | Claims NONE | NO |

2. Citations and explanations:

Claims 1, 4, 5, 9-11, and 13-15 and 18 lack novelty under PCT Article 33(2) as being anticipated by Seidman, US 6,46,479 B1.

Seidman teaches a method and apparatus of detecting an increased risk of developing pregnancy-induced hypertension comprising: measuring the carbon monoxide (CO) concentration a breath sample; comparing the concentration to a reference CO concentration indicative of pregnancy-induced hypertension; and determining that there is an increased risk of pregnancy-induced hypertension (see col. 7, lines 16-23, and claim 1).

Claims 2, 3, 16 and 17 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest a method and apparatus for predicting the onset of pain or stroke, comprising comparing the measured concentration levels indicative of an onset of pain or stroke.

Claims 6-8 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest a method for predicting the onset of one or more sickle-cell anemia related pathologies, comprising comparing the measured concentration levels indicative of an onset of one or more selected sickle-cell pathology.

Claim 12 meets the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest a method for predicting the onset of at least one (NO)-related negative influence, comprising wherein the one or more (NO)-related negative influences are created or worsened by an ivHb-dependent decrease in (NO) bioavailability.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US05/03398

| Box No. VII Certain defects in the international application |
|--|
| The following defects in the form or contents of the international application have been noted: |
| The following defects in the form of contents of the international application have been noted: The description is objected to as containing the following defect(s) under PCT Rule 66.2(a)(iii) in the form or contents thereof: on page 1, line 11, "60/540,242" is not correct and should be amended to 60/540,292 |
| Page 21 mile 2-7 - 2-1. |
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